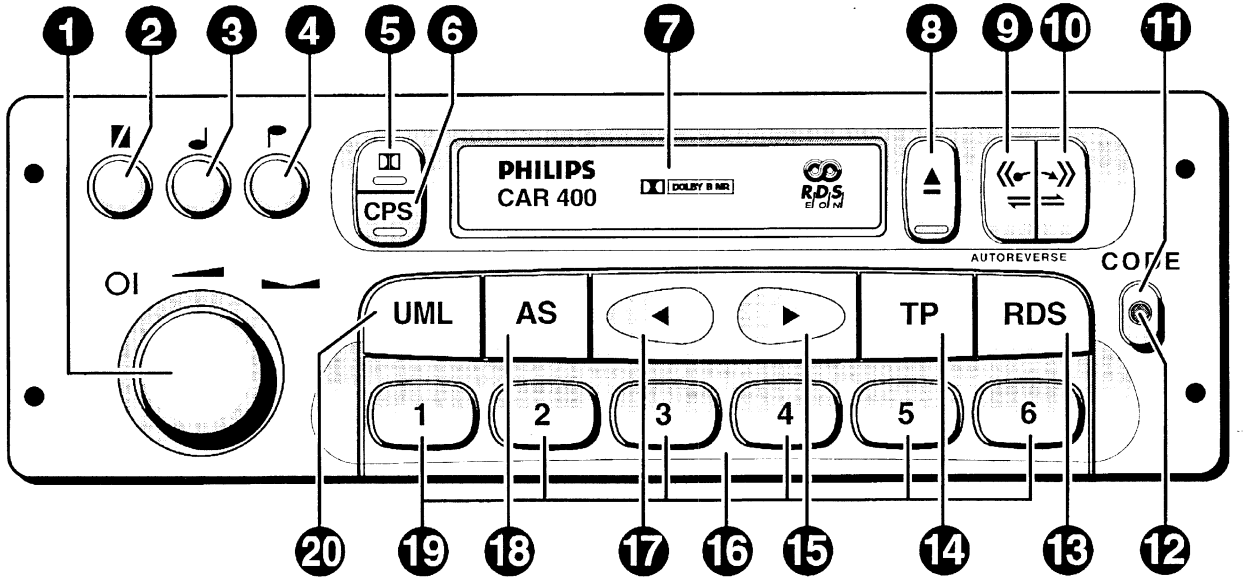
Radio
CAR 400

Philips DC 396

22 DC 396175

Operating Instrutions

OPEL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2
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PHILIPS
CAR 400
CPS
AUTOREVERSE
UML
AS
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RDS
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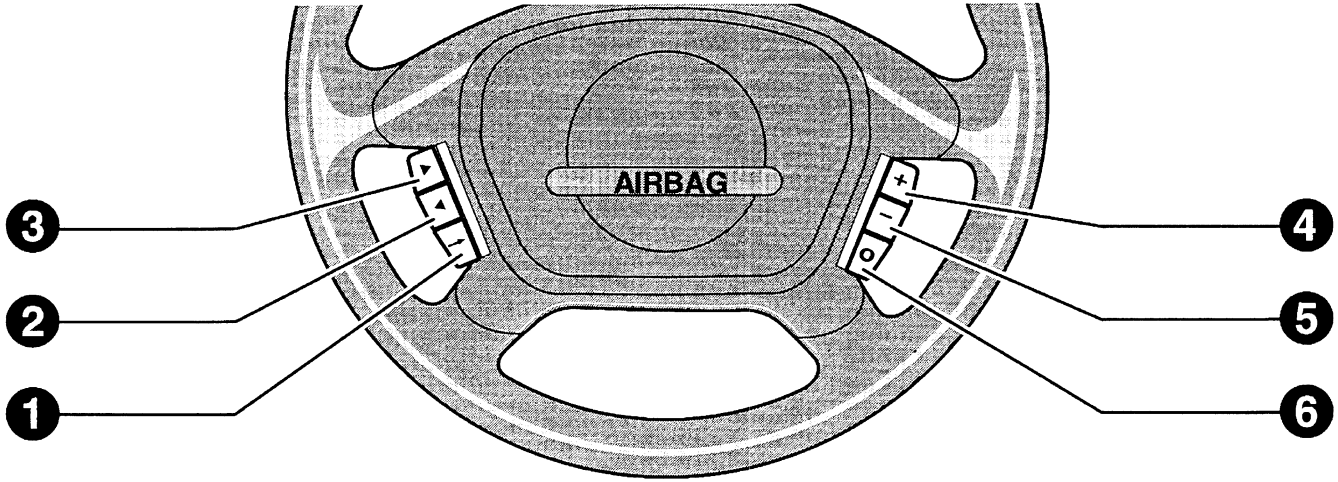
AIRBAG
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Overview

Controls

No.	Symbol	Function
❶	⏻	Switching on / off: press
	◢	Volume: turn
	◣	Balance left <-> right: pull and turn
❷	◪	Fader: push to release and turn
❸	♩	Bass: push to release and turn
❹	♪	Treble: push to release and turn
❺	DD	Dolby B Noise Reduction
❻	CPS	Cassette Programme Search
❼	–	Cassette opening
❽	⏏	Radio <-> cassette switch
❾	«	Fast rewind
❿	»	Fast forward
	⇌	« and » pressed **half-way in** simultaneously: reverse
	⇝	« and » pressed **fully in** simultaneously: cassette eject

No.	Symbol	Function
⓫	–	Unlocking key for panel
⓬	–	LED for theft protection
⓭	RDS	RDS function
⓮	TP	Traffic Programme
⓯	►	Search key upwards
⓰	–	Removable panel
⓱	◄	Search key downwards
⓲	AS	Automatic Storing
⓳	1 - 6	Station presets
⓴	UML	Selecting waveband

Remote control

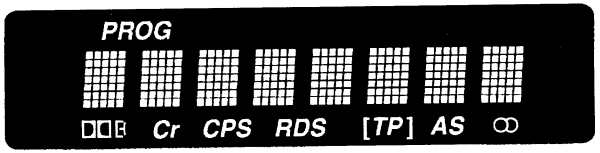
(only certain car versions)

No.	Symbol	Function
❶	→	Increase preset number
❷	◄	Search key downwards
❸	►	Search key upwards
❹	+	Increase volume
❺	–	Decrease volume
❻	O	Radio <-> cassette switch

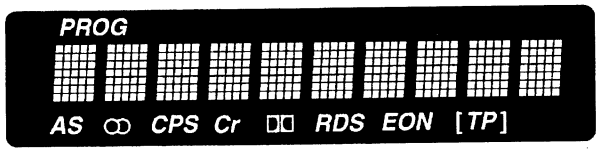
Display unit

The display unit in your car (see the car manual) is also used for displaying the radio information. Two fundamental types of display are built in.

8 digit display



10 digit display



In this manual the contents of the 10 digit display are shown.

The display contents of the 8 digit display correspond to the 10 digit display except for the waveband and the preset numbers with some radio functions.

Theft protection

Coding

This set is provided with a passive security system and comes coded from the factory. A coded set is worthless to a thief. Don't leave the Car Pass or the Radio Pass with the CODE number in the car.

When coded, the set briefly shows "CODE" in the display each time it is switched on (providing that ignition is switched on). The CODE protection LED ⑫ flashes as soon as the set and the ignition are switched off.

You can disable the code by decoding the set (see "Decoding", page 18).

Removable panel ⑯

The set has a removable panel for additional theft protection.

Always take the panel with you in it's protective case when leaving the car. The set only functions with the original panel. In case of loss of the panel the whole set has to be exchanged by an authorized Opel dealer upon payment.

Removing the panel:
Press the unlocking key ⑪ and take off the panel.
Inserting the panel:
Press the panel into place at both sides until it clicks into position.

Switching on / off

O| Switch the set on or off by pressing control ❶.

The set is switched on automatically when switching on the ignition, after it was switched off by the ignition key.

To disable the connection between ignition key and radio, you have to switch off the automatic switch-on (see page 19).

Automatic switch-off

If the set is on, it will automatically switch off one hour after switching off the ignition.

Volume

The set always starts up with a factory set volume level. It is not possible to change this initial volume level.

Volume
Turn control ❶

Balance left <-> right
Pull and turn control ❶

Fader speakers front <-> rear
Turn retractable control ❷.
Push to release.

Tone

Bass
Turn retractable control ❸, push to release.

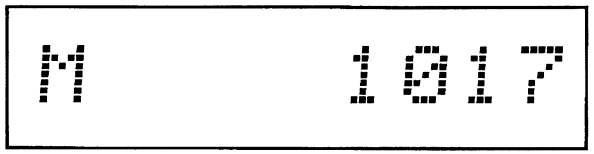
Treble
Turn retractable control ❹, push to release

Radio

Selecting waveband

Select the waveband by pushing UML key ⑳ one or more times. The waveband is shown in the display ("U", "M" or "L").

U = FM
M = MW (medium wave)
L = LW (long wave)



Station on medium wave

Stereo broadcast
When a stereo broadcast is received on FM, the ∞ indicator appears in the display. In case of poor field-strength the set automatically switches to mono.

Tuning-in a station

You can tune-in stations in different ways:

- search tuning
- manual tuning
- Auto-Store (AS)

and if RDS is switched on (FM only):

- looking up the FM Station Memory (see page 15)
- RDS Programme Search (see page 12)
- TP search tuning - search tuning accepts TP stations only (see page 12)

Search tuning:
(only when RDS is switched off)

Press tuning key ⑮ or ⑰ for less than 1 second. The radio mutes.

◄ search tuning downwards

► search tuning upwards

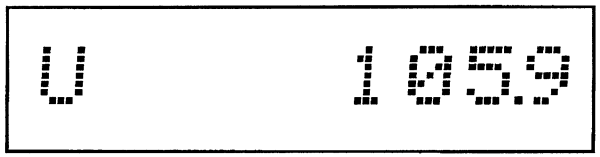
If no station was found by the first search of the waveband, the set automatically switches to a more sensitive search level.

Manual tuning:
(only when TP and RDS turned off)

To tune-in stations of which the frequency is known.

Coarse tuning:
Hold tuning key ◄ or ► pressed until desired frequency is almost reached.

Fine tuning:
Briefly tap tuning key ◄ or ► repeatedly until the right frequency is in the display.



FM station, RDS and TP switched off

Radio
Data
System

RDS is a service which is being introduced all across Europe by the broadcasting companies. RDS makes it easier to find a desired FM station, and ensures interference-free reception.

RDS stations transmit – in addition to the programme – digital data with information which the RDS set automatically evaluates.

If an RDS station is received, the station-name instead of the frequency appears in the display.

Each RDS station is broadcast on several frequencies. During your journey RDS automatically compares the signal quality of the receivable frequencies. The set always switches to the strongest (best-possible reception of chosen station). The station-name remains unchanged in the display.

Therefore it is recommended to switch on RDS.

Switching on RDS

Select FM with UML key ⑳, then switch on RDS with the RDS key ⑬. "***RDS***" appears in the display. If you switch on TP ("Traffic Programme"), RDS is automatically activated.

Search tuning now accepts RDS stations only. The radio selects the best-receivable frequency for the tuned station. A short interruption of radio playback may occur.

RDS Programme Search:

Press tuning keys ⑮ or ⑰.

◄ Programme Search downwards

► Programme Search upwards

Display the frequency of an RDS station:

To display the actual tuned frequency of the selected RDS station, press UML key for approx. 1 second until the display shows the frequency. After approx. 5 seconds the display returns to station-name.

Switching off RDS

Press RDS key. "***RDS***" disappears from the display. The display shows the frequency instead of the station-name. The set no longer tunes to the best-receivable frequency.

Traffic Information

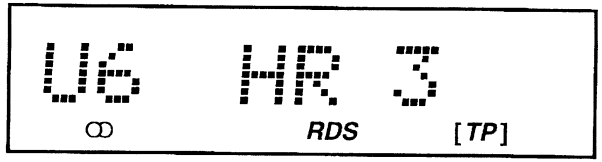
(TP = Traffic Programme)

TP station = RDS station which broadcasts Traffic Announcements (TA). The display shows "***TP***".

Switching on TP

To receive TP stations only. Search tuning accepts TP stations only.

Select FM waveband with UML key ⑳. Then press TP key ⑭. The display shows "**[*TP*]**".



TP station, TP is switched on

If reception of a TP station is not possible, or during the search, the display shows "**[ ]**".

The radio automatically tunes to the strongest TP station if:

- you switched on TP while listening to a non-TP station,
- you selected a non-TP station with one of the preset keys ⑲,
- the volume is adjusted to the minimum level and the selected TP station is getting too weak,
- the radio was tuned to a non-TP station during cassette playback,
- the tuned TP station is getting too weak during cassette playback.

During cassette mode, playback will be interrupted by Traffic Announcements when broadcast.

You can also switch on TP while listening to cassette. In this case the station-name of the last chosen programme is displayed for about 5 seconds.
You can programme the volume of Traffic Announcements independent of the standard volume. See "TA volume level", page 22.

Switching off TP

Press TP key. The display no longer shows "[ ]".

To switch off TP during a Traffic Announcement press TP key twice briefly.

"TP ON" or "TP OFF" is not stored (with the frequency) when storing stations on the preset keys.

To hear Traffic Announcements only

If you want to hear Traffic Announcements only, switch on TP and mute the set by adjusting the volume to minimum with control ❶. You will hear Traffic Announcements with the preset TA volume level (see "TA volume level", page 22).

Interrupting a Traffic Announcement

If you do not wish to continue listening to a particular Traffic Announcement (for example while listening to cassette playback) press TP key once briefly during the Traffic Announcement. TP remains switched on.

RDS-EON

(**E**nhanced **O**ther **N**etworks)

With RDS-EON it is possible to hear Traffic Announcements even when you listen to a non-TP station. Therefore the set receives information about alternative TP stations via the Radio Data System.

Non-TP stations linked by EON are treated like TP stations by the radio and are indicated with "***TP***" or "***TP-EON***" in the display (depends on display type).

To hear Traffic Announcements via RDS-EON

Press TP key. The display shows "[***TP***]". When a Traffic Announcement is broadcast from an EON-linked station the set automatically switches to that TP station.

After the Traffic Announcement has finished you will hear the selected non-TP station again. During a Traffic Announcement the station-name of the TP station is shown in the display.

RDS-EON is also active when listening to cassette playback.

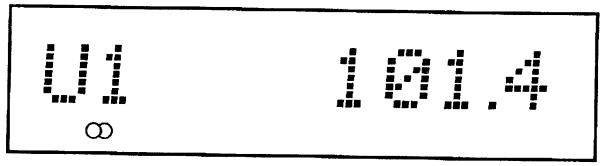
Storing stations

Storage locations for 30 stations are available:

6 x U (FM),
6 x M (MW),
6 x L (LW),
6 x U AS
(Automatically-stored FM stations)
6 x M AS
(Automatically-stored MW stations)

Storing

Select desired waveband and tune-in station. Press one of the preset keys ⑲ and keep pressed until you hear the tuned station again. During the storing process the currently stored station is shown.



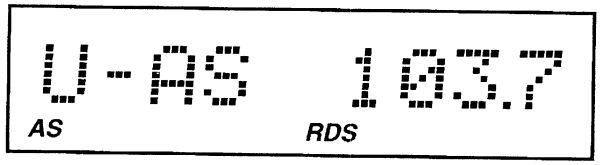
FM station stored on preset 1

The previously-stored station is replaced. The selected preset number 1 - 6 appears in the display (only some display types show the preset number for RDS stations). "RDS-ON" or "RDS-OFF" is stored (in addition to the frequency) when storing stations on the preset keys.

Automatic Storing (AS)

Select desired waveband (U or M). Press AS key ⑱ until you hear a confirmation beep. Search tuning starts, "***AS***" appears in the display.

RDS is switched on automatically during Auto-Store and remains switched on after Auto-Store has finished.



Search tuning during Auto-Store

After the Auto-Store process has finished, the six strongest stations in this reception area are stored in the AS storage locations of the preset keys.

During the Auto-Store RDS stations are given preference and stored on the first locations of the preset keys.
When leaving the reception area of the stored stations, perform Auto-Store again to store new strong stations.

If you switch on TP before or during the Auto-Store process, the set recalls a preset with a TP station after Auto-Store has finished (not necessarily preset 1).

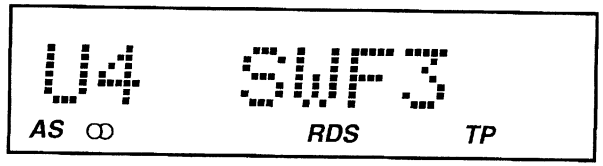
If no TP station was found by Auto-Store, a search tuning for a TP station will run as long as at least one TP station is found.

You can also store stations manually on the AS storage locations (see "Storing").

Recalling stored stations

Select waveband (U, M, or L). Press the desired preset key.

To select one of the stations stored with Auto-Store, select waveband (U or M), then briefly press AS key. Now press desired preset key.



TP station stored with Auto-Store, TP switched off

FM Station Memory

In addition to the locations on the preset keys the radio provides an FM Station Memory, in which all receiveable FM stations are stored. You can look up this memory with the tuning keys.

To look up the FM Station Memory:

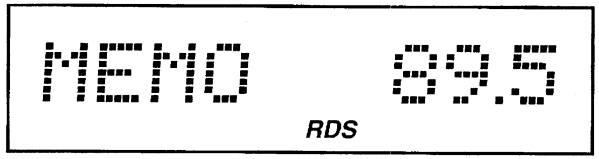
Switch on RDS. By briefly tapping tuning keys ⓯ or ⓱ one or more times you can recall all stations stored in the FM Station Memory. The display shows the station-names or frequencies of the stations.

The FM Station Memory is set up everytime the set searches for a TP station or you perform an Auto-Store.

You can manually set up a new FM Station Memory anytime you like.

Setting up a new FM Station Memory:

Press RDS key ⓭ for at least 2 seconds until you hear a confirmation beep. The display briefly shows "MEMORY U", then "MEM" or "MEMO" (depends on display type) and the running frequency.



Display during set up of FM Station Memory

The FM Station Memory process is finished after approx. 30 seconds. The set switches back to radio playback.

The stations stored in the locations of the preset keys are not replaced by this process.

Cassette

Cassette playback

Insert cassette (open side to the right) in cassette opening ❼. The set switches from radio to cassette. The upper side of the cassette is played. The display shows "CAS 1>".

If you insert a cassette in the cassette opening when the set is switched off, the set is automatically switched on, providing that you did not eject a cassette when the set was switched off. Cassette playback starts with the upper side of the cassette.

Reverse

⇌ Press keys ❾ and ❿ **half-way in simultaneously** to change cassette side.

The display shows "CAS 1>" for the upper side and "CAS 2>" for the lower side of the cassette.

The set automatically changes the side at the end of a tape.

Automatic Tape Detection

The set provides an automatic Metal / Chrome tape detection. The display shows "***Cr***" when a Metal or Chrome cassette is inserted.

Dolby B Noise Reduction

DD Press DD key ❺ briefly to playback cassettes recorded with the Dolby B Noise Reduction system. The display shows "DDB" or "DD" (depends on display type).

Press DD key again to switch off the Dolby B Noise Reduction system.

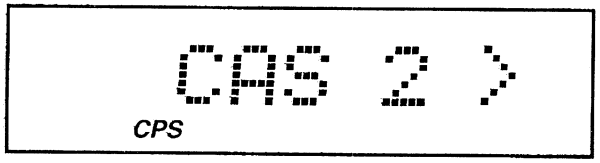
Cassette Programme Search (CPS)

Press CPS key ❻ to activate the Cassette Programme Search. The display shows "***CPS***".

Press one of the keys ❾ or ❿ **fully home:**

» Forward wind to next track

« Repeat track



Cassette Programme Search, lower cassette side

Stopping Cassette Programme Search

- Press the other key which is not pressed « or » **half-way in**, or by
- cassette eject, or by
- pause (stand-by)

Fast forward and rewind

(CPS switched off)

Press one of the keys « or » **fully home.**

» Fast forward

« Fast rewind

During fast forward and rewind you hear the last-tuned radio station.

To stop fast forward or rewind, press the other key which is not pressed **half-way in.**

® Dolby Noise Reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

Interrupting playback (pause)

▲ Briefly press stand-by key ❽. The cassette remains in the cassette opening. The set switches from cassette to radio.

Briefly press stand-by key again to switch back from radio to cassette.

Cassette eject

⟶ Press keys « and » **fully home simultaneously**. The set switches to radio playback and the cassette is ejected.

You can also eject the cassette, when the set is switched off.

Radio display during cassette playback

You can display the station-name (of RDS stations) or the frequency of the station you last listened to during cassette playback.

Press UML key ⓴ for 1 second. The display shows the frequency or the stationname of the latest tuned station for approx. 5 seconds, for example "U1 101.2".

Within these 5 seconds it is possible to select another station with one of the preset keys or to start a search tuning with the tuning keys.

If TP is switched on, or you switch on TP during cassette playback, the radio automatically tunes to the strongest TP station, when the latest tuned station gets too weak.

Security CODE

The set is protected against theft by a Security CODE. A coded set is worthless to a thief.

If the coded set is disconnected from the power supply, for example when removing the set (theft) or by disconnecting the car battery, the set is electronically locked.

Only you can make the set function again by entering the right CODE (see "Getting set back into operation after power supply has been interrupted", page 18). The CODE number is stated on the Car Pass or the Radio Pass.

Store the Car Pass or the Radio Pass in a safe location (for example with your car documents), but never in the car.

You can disable the theft protection by decoding the set, for example if you wish to sell the set. If you sell the set, you should give the CODE number to the buyer.

To prevent your car radio from being decoded via the "trial and error method" a waiting time starts after each unsuccessful attempt at entering the CODE.

During the waiting time, the set must remain switched on. The display shows "SAFE". After the first two attempts, the waiting time lasts approx. 10 seconds. After this it is increased to 10 minutes. With each further unsuccessful attempt the waiting time is doubled, reaching 640 minutes by the ninth attempt.

After 10 unsuccessful attempts the set is blocked. The set has to be exchanged by an authorized Opel dealer upon payment.

It is recommended to have the set put back into operation by an authorized Opel dealer after the sixth unsuccessful attempt.

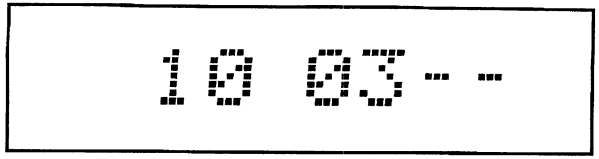
The number of remaining attempts is shown in the display.

Decoding

(deactivating theft protection)

Decoding of the set is only possible, when the ignition is turned on.

1. Switch on ignition.
2. Switch off the set.
3. Press AS key ⑱ and keep pressed.
4. Switch on the set. Keep AS key pressed until you hear a confirmation beep. The display shows "CODE" and then "10 - - - -" after 3 seconds. The number of remaining attempts to enter the code is shown.



Display during decoding, 10 attempts left

5. Enter the CODE number (from the Car Pass or Radio Pass) with preset keys 1, 2, 3 and 4.

   If you enter a wrong CODE number overwrite the whole number.

   Example: The CODE number is 0 3 6 5

Preset keys ⑲	**Display**
1 x key 1	0 - - -
4 x key 2	0 3 - -
7 x key 3	0 3 6 -
6 x key 4	0 3 6 5

6. Confirm CODE number with AS key: Hold key pressed for approx. 3 seconds, until you hear a confirmation beep. The set is no longer muted.
7. If a wrong CODE number has been entered and confirmed:

   The display shows "SAFE" and after the waiting time "9 - - - -". Nine attempts are remaining.

   Now enter the correct Code.

Getting set back into operation after power supply has been interrupted

1. Switch on ignition.
2. Switch on the set by pressing control ❶. The display shows "SAFE".
3. Proceed as desribed in "Decoding", paragraph 2.)

Display when set is electronically locked

Coding

(activating theft protection)

Proceed as described in "Decoding".

After successful coding mute of the set is released. Now the set is protected again by the Security CODE.

Remote control

(only certain car versions)

To increase driving security and to improve ease of operation some of the radio functions can be controlled by the remote control at the steering wheel.
The following functions are available (illustration: see fold-out page):

Overview:

No.	Symbol	Function
❶	→	Increase preset number
❷	◄	Search key downwards
❸	►	Search key upwards
❹	+	Increase volume
❺	–	Decrease volume
❻	o	Radio <-> cassette switch

Volume adjustment

To adjust the volume step by step, press or pull the + or – key (❹ or ❺) one or more times.
If you press and hold the key for longer the volume is adjusted continuously.

Source selection

To switch from radio to cassette playback or vice versa press **o** key ❻.

Tuning control

The ◄ and ► (❷ and ❸) keys have the same functions as the tuning keys of the radio.

For tuning-in stations see "Radio" (page 11) or "RDS" (page 12).

Scanning presets

With the → key ❶ you can select the presets 1 to 6 of the chosen waveband.

With every push of the → key, you can select the next preset.

Pressing and holding the key scans the presets successively.

Extended functions

Automatic switch-on

You can switch the operating set off and on again with control ❶ or with the ignition key.

You can disable the connection between radio and ignition key (automatic switch-on).

Disabling automatic switch-on:

- Switch on ignition, switch off the radio
- Press preset keys 1 and 3 ⓳ and keep pressed
- Switch on the radio and keep preset keys 1 and 3 pressed until you hear a confirmation beep

Before the confirmation beep the current state of the automatic switch-on is shown in the display:

a) "IGNI ON" = automatic switch-on is on

b) "IGNI OFF" = automatic switch-on is off

After approx. 3 seconds and confirmation beep the current state is changed.
With "IGNI OFF" you can switch the radio on and off only with control ❶.

To enable automatic switch-on:

Proceed as described for disabling automatic switch-on.

Display when automatic switch-on is activated

If the set is disconnected from the car battery and later reconnected, the automatic switch-on is enabled.

Automatic switch-off after one hour is independent of the automatic switch-on. It is always enabled.

Automatic volume control

(Only with some car versions)

The automatic volume control adjusts the volume depending on the car speed.

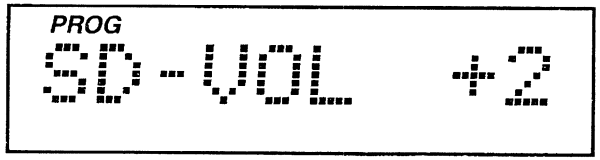
The faster you drive, the more the volume of the radio is increased to compensate for the driving noise.
You can select the compensation curves between 0 (off) and 5 (maximum increase).

Automatic volume control setting:

- Press UML key ⑳ for at least 3 seconds until you hear a confirmation beep. The display shows for example "SD-VOL +2".
- Press tuning keys ⑮ or ⑰ within 10 seconds to select the desired setting between "SD-VOL 0" and "SD-VOL +5".
- To store the selected setting, press UML key again for at least 3 seconds until you hear a confirmation beep.

If you don't store the setting within 10 seconds after the last press of a key, the new setting is not stored.

At "SD-VOL 0" the automatic volume control is switched off.

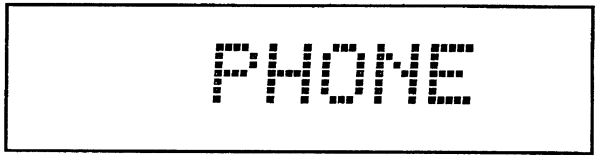


Setting for automatic volume control

Car telephone

The radio is prepared for connection of a car telephone. If you want to use the telephone functions, your car telephone has to be connected to the radio by an authorized Opel dealer.

If the car telephone is connected to the set, the display shows "PHONE" everytime you switch on the telephone or a call is coming in. Radio or cassette playback will mute.



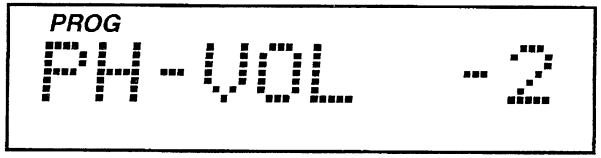
Display during a telephone call

The telephone signal is reproduced through the loudspeakers of the radio, when using the hands-free operation.

Adjusting the telephone level for hands-free operation:

You can adjust the volume of the telephone signal in seven levels:

- Switch off the radio;
- Press TP key ⓮ and keep pressed;
- Switch on the radio and keep TP key pressed until you hear a confirmation beep. The display shows for example "PH-VOL - 2";
- Select volume level between - 3 and +3 with the tuning keys ◄ or ►;
- To store the new setting press TP key again for at least 3 seconds until you hear a confirmation beep.



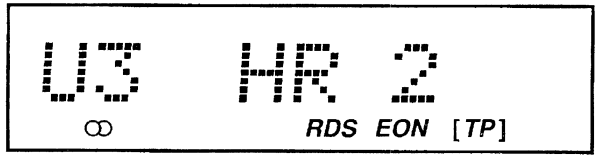
Display during adjustment of hands-free volume

If you don't store the setting within 10 seconds after the last press of a key, the new setting is not stored.

Traffic Announcements during hands-free operation

The hands-free operation has priority over Traffic Announcements. Nevertheless you can hear Traffic Announcements on demand.

The TP function has to be switched on ("**[*TP*]**" in the display, see page 12).



Display during hands-free operation, when a Traffic Announcement is broadcast via RDS-EON

When a Traffic Announcement is broadcast the display shows the station name of the TP station instead of "PHONE".

- With the TP key you can switch between the telephone call and the current Traffic Announcement.

Regional programmes

Some RDS stations broadcast different regional programmes. If you want the radio only to tune to alternative frequencies with the desired regional programme:

Recall one of the presets or store the desired station on one of the presets.

Then press the preset key for at least 5 seconds until you hear a confirmation beep. The display shows "REG ON" for approx. 3 seconds.

Display when you activate the regiional function on a preset

To switch off this function:

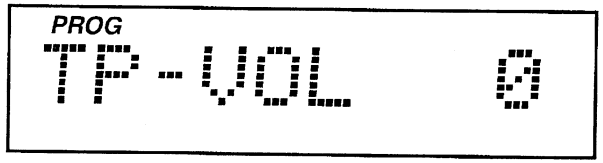
Press desired preset key again for at least 5 seconds until you hear a confirmation beep. The display shows "REG OFF".

"REG ON" or "REG OFF" are stored (in addition to the frequency) when storing stations on the preset keys.
When switching on the set or recalling one of the presets, "REG ON" is briefly shown in the display; REG OFF is not shown.

TA volume level

You can adjust the volume of a **T**raffic **A**nnouncement (TA) in addition to the standard volume.

- Press TP key ⓮ for at least 3 seconds until you hear a confirmation beep. The TA volume level is shown in the display (for example "TP-VOL -1").
- Select the desired TA volume level between - 3 and +3 with tuning key ⓯ or ⓱.
- To store the new setting press TP key again for at least 3 seconds until you hear a confirmation beep.



Display during adjustment of the TA volume level

If you don't store the setting within 10 seconds after the last press of a key, the new setting is not stored.

General information

In case of faulty operation, consult an authorized Opel dealer.

FM reception

FM reception in the car imposes higher demands on the set compared with comparable home equipment, so even RDS-stations may be disturbed.

Refer to the car instruction manual regarding physical causes of interference.

Care of cassettes and cassette player

Never expose cassettes to extreme heat or direct sunlight. Only use C-60 or C-90 cassettes of good quality. Always keep cassettes in their cases.
Clean cassette player with cleaning cassette (catalogue no. 17 82 504) if playback quality deteriorates.

Break in power supply

When replacing the car battery the station memory and all other settings remain stored. The set is locked electronically by the theft protection system. Put the set back into operation by entering the Code number (see page 18). If you have lost the Code number, please consult an authorized Opel dealer. Getting the set back into operation is possible only on payment and after showing proof of ownership.

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